

Abstract of the Disclosure

The present invention provides temperature compensation for a power amplifier by varying a supply voltage applied to the power amplifier. The supply voltage is varied based on operating temperature in light of the temperature characteristics of the power amplifier. Thus, the variation in the supply voltage offsets variations in the characteristics of the power amplifier due to changes in temperature. Whether the power amplifier is used to control the output power of a transmitter or as part of a polar modulation system, temperature compensation of the power amplifier allows the power amplifier to provide an accurate and repeatable output signal having essentially no fluctuations due to changes in temperature.